

SPECIFICATION AMENDMENTS:

Page 1, line 5, insert the following heading:

BACKGROUND OF THE INVENTION

Amend the two paragraphs beginning at page 1, line 6 to read as follows:

1. Field of the Invention. The invention concerns a coherence microscope and a method of operating such a microscope.

2. Description of the Related Art. In conventional microscopy problems are involved in the sharp representation of spatially extensive objects. Image sharpness is adversely affected due to blurred contributions of object regions above and below the focal plane. Different apparatuses and methods of imaging spatially extensive objects have therefore been developed.

Delete the paragraph beginning at page 4, line 3 and insert the following heading:

SUMMARY OF THE INVENTION

Page 10, between lines 30 and 31, insert the following new heading:

BRIEF DESCRIPTION OF THE DRAWINGS

Page 11, between lines 8 and 9, insert the following new heading:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS